

Cod. 10035016

INSTALLATION GUIDE
Reserved to qualified personnell.



WARNING !
The manufacturer disclaims any responsibility and does not grant the warranty for faults or malfunctioning resulting from bad installations or stress beyond the technical characteristics of the devices or missing installation of the required protection fuses. Do not expose the device to direct water jets; protect it when washing the engine; consult FIGURE 1 for its assembly. Warranty claims due to water infiltration have to be demonstrated not resulting from bad installation. Due to alarm exclusive dissuasive function against possible theft, T.E.K. s.r.l. disclaims any responsibilities for damages caused by theft or theft attempt on the car or on objects inside it. T.E.K. s.r.l. reserves the right to execute adjustments whenever needed without prior notice. For a correct functioning of the system it is important to periodically verify the efficiency of the alarm's sensor

ICONS

Blinker	No. 1 engine block	Original power doors
Ultrasonic capsules	LED display with key socket	Car key
Push buttons for opening the trunk and/or hood	Disarming (doors open)	

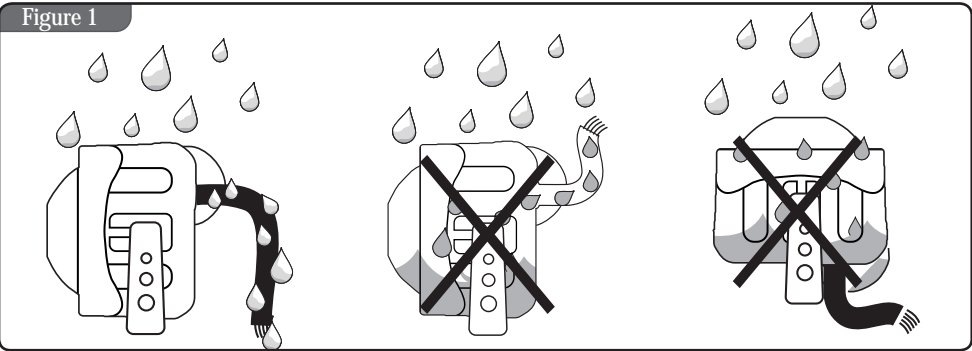
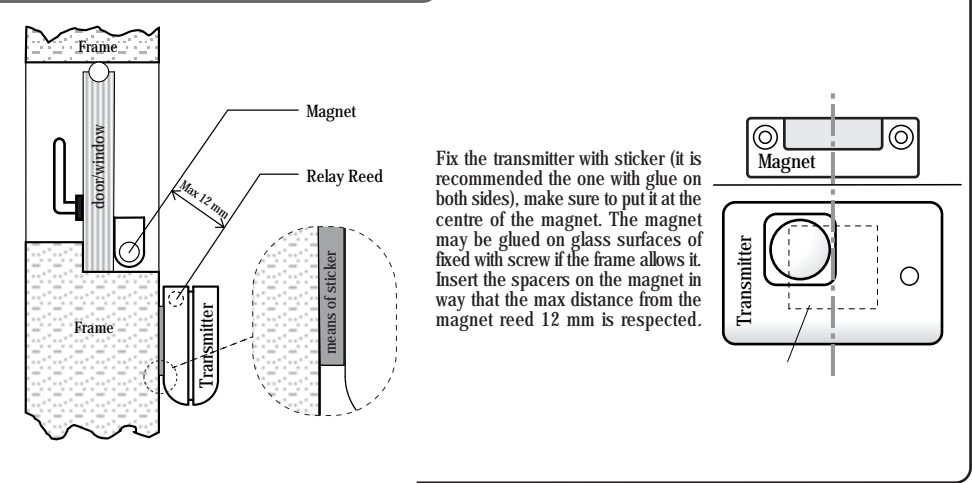
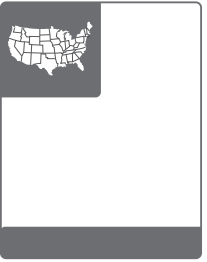


Figure 2 - Installation by means of sticker



TRANSMITTER TECHNICAL FEATURES	
RF power (ERP):	< 100µW
Modulation:	On Off Keying (OOK)
Power supply:	1 Alcaline battery 12V 33mAh Size Z3A
Current consumption:	Max 16 mA
Transmission time:	One second ab
Battery life:	The theoretical battery life is estimated over two years, supposing a fixed consume of 1µA and 3000 activations, by the way considering the high temperature to which the vehicle could be exposed during garaging we do recommend to change batteries on a yearly basis.

TECHNICALS FEATURES OF THE PRODUCTS:	
AZ2003W series central alarm	
Power supply	10 - 15V
Absorbed current.....On	17mA max.
Off	12mA
Working temperature.....	-40° +85° C (centralina)
Relay contacts capacity.....	5A a 20° C lamp.frecce
Modules output capacity.....max.	250mA
Engine block driver output capacity.....max.	250mA
Power doors output capacity	max.250mA
Dimensions	max.L.70 A.25 P.75
Weight	88 gr.
AZ2000 series siren	
Current absorbed by siren	stand by ...1mA max.
max.	1.2A
Working temperature:.....	-40° +125° C (siren)
Dimensions	max.L.74 A.71 P.74
Weight	450 gr.



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MOUNTING SUGGESTIONS

Preliminary Indications
AZ20004W is a product dedicated to be installed on campers and roulottes. Its software allows to memorize up to ...8.opening.sensors (doors, windows and side compartments) and 2 remotes.

Functionning
A door/window opening immediately provoke an alarm triggering. Upon alarm arming the wireless opening sensors are always active. The protected area can be occupied, making sure to not open closed frames/fixtures. It is possible to close open frames without provoking an alarm triggering.

It is possible to leave frames open (for instance to change the air) without provoking alarm, in this case the opened t is possible to leave frames open (for instance to change the air) without provoking alarm, in this case the opened frame is obviously **NOT PROTECTED**. The ultrasonic sensors exclusion (even in case of total or partial protection) can be effected following the standard procedure, without blocking the wireless opening sensors The wireless opening sensors triggering is recorded in the alarm memory and signalled upon alarm disarming by two beeps and two LED flashes repeated per 6 times. The same signalling is provided when the main unit is in the installer mode or in his immunity period after alarm activation, for an easy functioning test.

Accurately read the vehicle's handbook and the TEK service manual (specifying how to adapt the product to the vehicle); and together with this manual identify the wires of the vehicle's original system, which are necessary for the installation.

The product that you are installing directly interfaces with a preexistent system, therefore:

- Do not interrupt components with absorption exceeding those indicated by the electrical features of the antitheft system (check the absorption of the interrupted components).
- Pay particularly attention to the engine block (if present) and indicators connections.
- Always weld the connections that interface with the vehicle's system indicated with "⊙" in the diagram.
- The wires for the engine block must be as short as possible.
- The grounding is to be made with faston connectors on the appropriate nodes on the vehicle.

Before starting the connections:

- Disconnect the battery's negative pole.
- Find the ideal position: in the engine compartment the sirens and inside the car the central unit (see fig. 1).
- Keep it at a maximum distance form heat sources and water jets.

Yellow wire: connect to the locked up positive pole (positive, +15, only present with the ignition turned on). This mandatory safety connection is used to deny the operation of the antitheft system while the vehicle is running and to trigger the attempted start sensor. The line is edge sensitive, that is: switching the ignition and leaving it on will trigger the siren once.

Blue wires: this connection is mandatory for correct operation of the automatic rearming, passive arming and siren off functions. These lines are edge sensitive that is: opening a door and leaving it opened will trigger the siren once.

Green wire: optional connection. To install the engine block (relay M4 and switch R9), cut the wire that powers the starting motor and follow the connections provided in the diagram for "engine block" function.
WARNING! Never interrupt the ignition circuit in catalysed cars.

No fuses are provided to protect engine blocking circuits as they are supposed to be already protected in the original plant. Is therefore mandatory to check that the interrupted circuits are protected by fuses rated for a current less than or equal to the relais current.

White and purple wires: These are used to command negative input power doors. Choose among the diagrams A and D, according to the car system, for the connections. You can also activate closing of the windows and/or sunroof on vehicles provided with the "comfort" system by increasing the activation times of the centralized locking (see centralized locking times selection).

CAUTION! The unit exclusively controls negative locking.

For installations with universal centralized locking, connect M5 module, choosing among the diagrams B, C, F, G according to the car system.

ULTRASONIC TRANSMITTERS: place these at the sides of the dashboard so that these are not faced and turned towards the rear part of the passenger compartment.

LED DISPLAY - ELECTRONIC KEY SOCKET: Apply (see diagram) onto the car window or onto the dashboard so as to be easily seen from both outside the car and from the driver's seat. Use the adhesive on the flat surface of the LED support taking care to scrupulously clean the surface onto which it is to be applied.

Pink wire: (negative output) activates the added modules, such as windows and/or sunroof power locking, or drives relays with a maximum current of 0.25A.

Keep the keys out from the car, reconnect the battery.

SELECTIONS AND SENSITIVITY ADJUSTMENT

INSTALLATION MODE: functional test for all the sensor with trigger signalling..

How to enter the Installer mode: the first time connect the siren and the power supply positive.

Later on: disconnect the siren, disconnect the power supply then reconnect the siren and the power supply

Exiting from the INSTALLATION MODE: just press the remote control otherwise switch on the dash-board and wait for 9 LED blinkings.

In the event several sensors are tripped simultaneously, only the one appertaining to the group with the highest priority is signaled (see SIGNALLING TABLE).

SENSIVITY ADJUSTMENTS: Access the trimmers compartment place on the central unit and enter installation mode.

ULTRASONIC SENSIVITY: adjust the trimmer to the minimum. Close the car doors, leave a front window halfway open and move your hand inside the passenger compartment, simulating an intrusion. Increase the sensitivity by slowly turning the ultrasonic trimmer clockwise until obtaining the signaling of the sensor tripping (see SIGNALLING TABLE). Close the vehicle completely and give little blows to the windows, making sure that the sensitivity is not too high.

The tripping of the sensors is checked once every two seconds, therefore the signaling could arrive with a delay of two seconds.

SELECTIONS (centralized locking times, voltage drop and passive arming).

VOLTAGE DROP SELECTION: detects voltage drops caused by turning on lamps exceeding 3 Watt.

PASSIVE ARMING SELECTION: Automatically arms the device getting off the vehicle.

POWER LOCKING TIME SELECTION: (See FIG. 5 - SELECTIONS in the general connection diagram).

SIGNALLING TABLE	
Alarm cause :	
presence of key positive	1
doors, trunk and/or hood open.....	2
absorption alarm	2
ultrasonic alarm.....	3

⊙ No. of flashes 🔔

PROGRAMMING

SIREN SOUND*: four siren sounds are available.

Type.....	acoustic power	passage frequency
1	low	2,2 Hz
2	high	4,4 Hz
3	high	2,2 Hz
4	low	2,2 Hz

REMOTE PANIC*:when the device is armed allows the user to switch the siren on with remote controller being outside the car (see USER'S MANUAL).

BLEEPS*: this function enables the following acoustic signals:
Arming:2 low tone, long beeps.
Disarming:1 low tone, long beep.
Alarm memory:(only the first 6 cycles) refer to the users manual "Alarm memory".

ENGINE LOCK OUTPUT/ALARM SIGNAL OUTPUT: This function makes it possible to select the output connected to the green wire. Proceed as follows: select OFF - to activate the engine lock by connecting the green wire to an optional relay (using the normally open contact) as shown on the general diagram; select ON - to permit the alarm signal by connecting the green wire to the auxiliary device (pager, satellite, etc.) with negative inputs (max. 0.25 A). Under these conditions you can also activate the engine lock by using the normally closed contact on the relay.

PANIC/ANTI-AGGRESSION: in both armed and disarmed state, with ignition on, allows the user to switch the siren on with the remote control (see USER'S MANUAL).

AUTOMATIC REARMING: automatically returns to the protection state if no door is opened within 45 seconds after disarming. Warning: check any cars' compartment where the user could unattendedly put the keys and the remote controls to be protected by push buttons connected to the blue wire.

ACCESSING PROGRAMMING

WARNING! This product is provided with factory programming that is: SIREN TYPE 3; ALL THE OTHER FUNCTIONS OFF. These functions marked with "*" shall not be enabled for installation in EEC countries.

1st Get on the car and close the doors. 2nd With the remote, arm the system.

3rd The LED turns on for 6 sec. while the locking system is actioned, then it turns off.

4th After the LED has turned off, switch on the dashboard and put the electronic keys in the LED plug, you will hear a double sound indicating the beginning of the programming. Switch off the dashboard. In case of error disarm the system with the remote and start all over from step number 2nd.

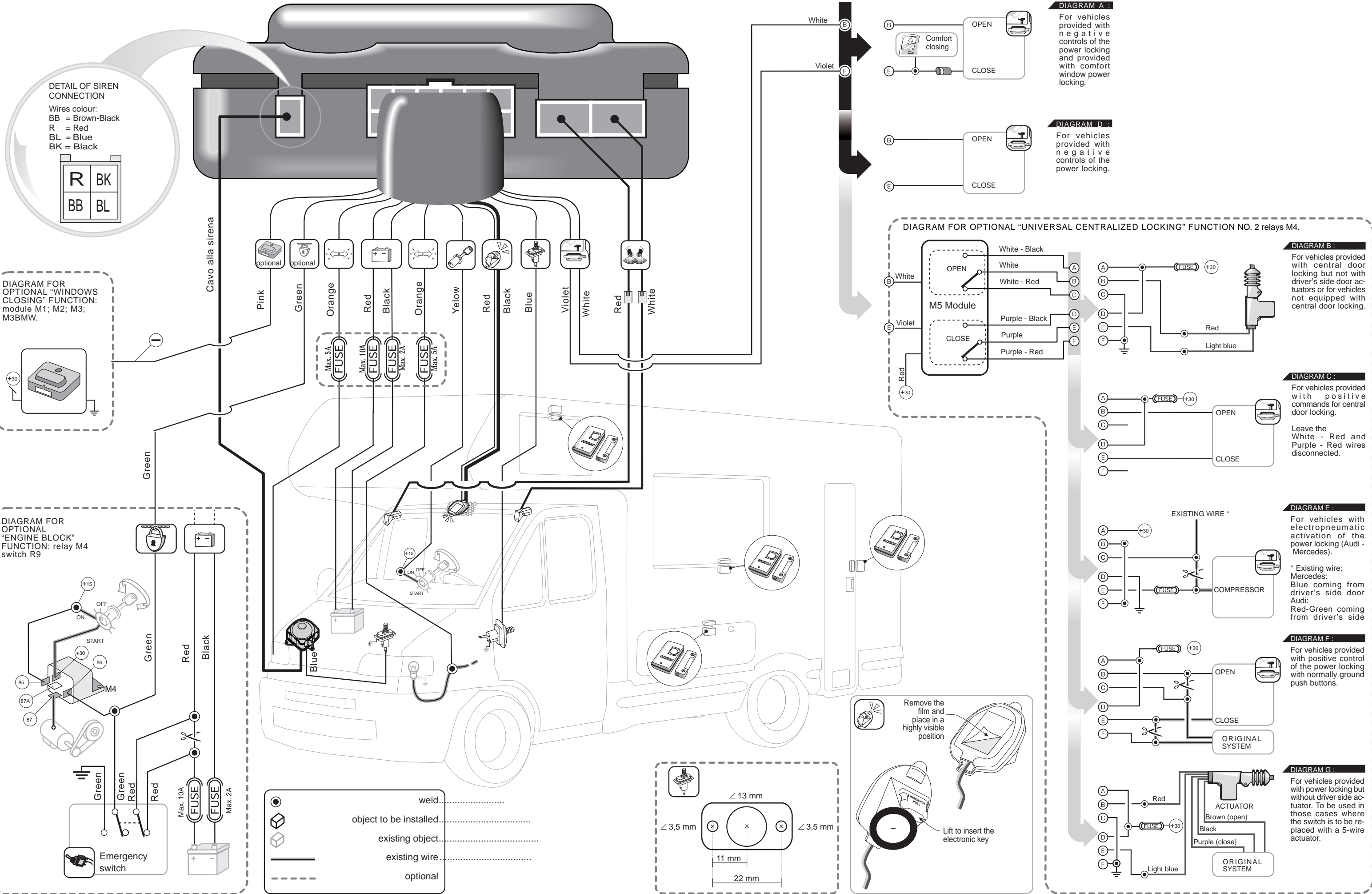
Actions on ignition key	LED flashes	Programmed function	Answer to remote control activation
5 th	6	Siren sound *	1,5 sec. of selected siren sound; once the preferred one is heard go to step 6 th .
6 th ON OFF	5	Remote panic *	ON OFF
7 th ON OFF	4	Bleep *	ON OFF
8 th ON OFF	3	Engine lock output Alarm signal output	ON OFF
9 th ON OFF	2	Panic / Anti-aggression	ON OFF
10 th ON OFF	1	Automatic rearming	ON OFF
11 th ON OFF	continuous	Self-learning for remotes, electronic keys and radio sensors	ON OFF
12 th OFF		End programming	ON OFF

ON OFF turning ON/OFF ignition key 🔔 low tone beep 🔔 high tone beep

SELF-LEARNING FOR REMOTES, ELECTRONIC KEYS AND RADIO SENSORS: It allows to memorize up to 2 remotes 2 electronic keys and up to 8 radio sensors excluding eventual lost or not working objects. After having switched on and off the dashboard to enter the 11th step 3 sounds will be issued (two high and one low): at this point press one of the two remotes (black casing) enclosed, in order to memorize all the remotes and the sensors, switch on the dashboard and insert the electronic keys in the plug of the LED, the alarm beeps one time. Switch off the dashboard to exit the programming and memorize the functions. Go further with the mechanic installation of the sensors following the instructions of the picture number 2

CONDITION MEMORY: the device records all the programmed functions and the functioning state (armed/disarmed) in a special memory which is not cancelled in case of missing power supply. This function allows to restore the correct functioning mode at power on, even in those models not equipped with back-up battery.

General connection diagram



Coding of the wireless sensors

The wireless sensors have to be coded before coding the remote control

For coding the wireless sensors please obey the directions as follows:

Seat on the drivers seat and close the door. Push button on the black remote control. Red LED is flashing shortly, then turn the ignition key until the dash board turns on (do not start the engine), now you can insert the electronic key above the red LED.

A double beep will sound. Take the key out of the LED and turn the ignition key to OFF position – 6 beep tones sound, respectively LED will flash accordingly. Now turn ignition key ON/OFF = 5 beeps, ON/OFF = 4 beeps, ON/OFF = 3 beeps, ON/OFF = 2 beeps, ON/OFF = 1 beep – now the red LED will turn on (permanent light) respectively LED is flashing for one time. Then turn ON/OFF the ignition for one more time and there will be a signal tone. Press now the button of the black remote control (to one you used in the first step, then one after the other push the button of each single wireless sensor. Finally push the button of the second black remote control and turn ON/OFF the ignition one more time.

Please pay attention that the three contact pins of the red LED will be inserted **STRAIGHTLY** to the key.

Possible troubleshooting

Resistor inside LED is not soldered properly.

- Ultrasonic sensors of the driver cabin can be switched of separately by pushing the button of the remote control two times within 40 seconds.

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